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Including this transmittal sheet, document consists of 39 pages.Date: January 27, 2006

To: Commissioner for Patents

From: Paul D. Durkee, Esq.

Company: U.S. PTO

Facsimile Number: 571-273-8300

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## MESSAGE

RE: U.S. Patent Application of Soha M.N. Hassoun, et al.  
Entitled: Circuit Having Hardware Threading  
Filed on: October 3, 2005  
U.S. Appl. No.: 10/551,837  
Our Ref. No.: TUFTS-002AUS

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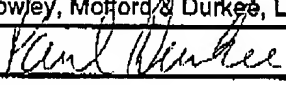
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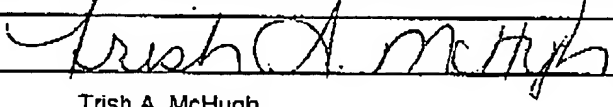
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/551,837	
	Filing Date	October 3, 2005	
	First Named Inventor	Soha M.N. Hassoun	
	Art Unit	Not Yet Assigned	
	Examiner Name	Not Yet Assigned	
Total Number of Pages in This Submission	38	Attorney Docket Number	TUFTS-002AUS

ENCLOSURES (Check all that apply)		
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Remarks In the event a petition for extension of time is required by this paper and not otherwise provided, such petition is hereby made and authorization is provided herewith to charge deposit account No. 50-0845 for the cost of such extension.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Daly, Crowley, Mottford & Durkee, LLP		USPTO Customer No. 022494
Signature			
Printed name	Paul D. Durkee		
Date	27 Jan 06	Reg. No.	41,003

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

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Appl. No. : 10/551,837  
Applicant : Soha M.N. Hassoun, et al.  
Filed : October 3, 2005  
T.C./A.U. : Not Yet Assigned  
Examiner : Not Yet Assigned

Confirmation No.:

JAN 27 2006

Docket No. : TUFTS-002AUS  
Customer No. : 022494

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Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

It is desired to cite for the record in this application the enclosed documents listed on the attached copy of PTO form PTO/SB/08A. The paragraph(s) marked below are applicable to this Information Disclosure Statement.

[ ] (1) The enclosed Information Disclosure Statement is being filed: within three months of the filing date; or within three months of the entry of the national stage of the above-identified application; or before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. §1.114. Accordingly, Applicant(s) believes that no fee or statement is required.

☐ (2) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by the fee set forth in 37 C.F.R. § 1.17(p).

SUBMISSION UNDER 37 C.F.R. § 1.97(c)

INCLUDING A STATEMENT UNDER 37 C.F.R. § 1.97(e)(1)

☒ (3) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by a statement under 37 C.F.R. § 1.97(e)(1). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(c)

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☐ (4) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by a statement under 37 C.F.R. § 1.97(e)(2). The undersigned hereby states that no item of information contained in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to any individual having a duty of disclosure as set forth in 37 C.F.R. § 1.56 (c) more than three months prior to the filing of the accompanying Information Disclosure Statement.

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INCLUDING STATEMENTS UNDER 37 C.F.R. §§ 1.704(d) AND 1.97(e)(1)

[ ] (5) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by statements under 37 C.F.R. §§ 1.704(d) and 1.97(e)(1). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement and was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the accompanying Information Disclosure Statement.

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[ ] (6) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by a statement under 37 C.F.R. § 1.97(e)(1) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that each item of information contained in the accompanying Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d)

INCLUDING A STATEMENT UNDER 37 C.F.R. §1.97(e)(2)

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The filing of this Information Disclosure Statement is not a representation by the undersigned as to personal knowledge of the contents of every word or phrase of the material enclosed or that reliance on other suitably trained professionals has not been made.

If a search report of a searching agency is enclosed identifying the nature of the relevance of each document, such a designation is deemed to satisfy Rule 98(a) (3) even if in a foreign language, since the few terms of relevance therein are deemed of universal cognizance. However, Applicant(s) does not necessarily adopt the position reflected by that report.

Appl. No.: 10/551,837

Docket No.: TUFTS-002AUS

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 500845.

Dated: 27 Jan 06

Respectfully submitted,

DALY, CROWLEY, MOFFORD & DURKEE, LLP

By: 

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	2
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**Complete If Known**

Application Number	10/551,837
Filing Date	October 3, 2005
First Named Inventor	Soha M.N. Hassoun
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	TUFTS-002AUS

## U. S. PATENT DOCUMENTS

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**FOREIGN PATENT DOCUMENTS**

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/551,837
Filing Date	October 3, 2005
First Named Inventor	Soha M.N. Hassoun
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	TUFTS-002AUS

Sheet

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of

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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		PCT/US2004/010320 International Search Report dated October 4, 2004.	
		W. ROBERTSON, S. PERIYALWAR, W. J. PHILLIPS, RTL Synthesis for Systolic Arrays, Proceedings of the International Symposium on Circuits and Systems, May 3-6, 1993, Volume 2, New York, IEEE, US.	
		M/ODRAG PTOKONJAK, WAYNE WOLF, Cost Optimization in ASIC Implementation of Period Hard-Real Time Systems Using Behavioral Synthesis Techniques, November 5-9, 1995, pp. IEE/ACM International Conference on Computer-Aided Design, IEE Comp. Soc. Press, US	
		U. NAGARAJ SHENOY, PRITH BANERJEE, ALOK CHOUDHARY, A System-Level Synthesis Algorithm with Guaranteed Solution Quality, March 27, 2000, Pages 417-424, Paris, France.	

Examiner Signature	Date Considered
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